

Amendments to the Specification

Please add the following new heading before paragraph [0002]:

BACKGROUND

Please add the following new heading before paragraph [0004]:

SUMMARY OF THE INVENTION

Please replace paragraph [0004] with the following amended paragraph:

[0004] ~~The~~ An object of the present invention is thus to specify a device and a method which increases the availability of a combined radar device/data transmission system.

Please delete paragraph [0005]

Please add the following new paragraph before paragraph [0006]

[0004.1] The present invention provides a radar system, in particular for motor vehicles, composed of one or more individual radars, at least one of which has both means for sensing and means for transmitting data. The means for sensing and the means for transmitting data can be operated simultaneously for a communication. Furthermore, the present invention provides a radar device signal receiver which is suitable for receiving a communications data signal in a radar device signal of such a radar system and feeding it to a demodulation means. Additionally, the present invention provides a radar device transmitter which is suitable for simultaneously emitting a broadband signal for sensing and a communications data signal in the peripheral region of the transmission/reception spectrum of the broadband signal. The present invention also provides a cooperative radar system having a plurality of such radar systems, which sense their respective surroundings and simultaneously exchange data with one another. Moreover, the present invention provides a vehicle having such a radar system or such a radar device signal receiver or such a radar device transmitter. Additionally, the present invention provides a method for sensing and transmitting data by means of a radar system which has one or more individual radar devices. The sensing and transmission of data are carried out simultaneously by means of at least one of the individual radars in the pulsed mode, and a peripheral region of the

transmission/reception spectrum of the sensing signal is used for the frequency range which is provided for the transmission of data.

Please add the following new heading and the following paragraphs after paragraph [0008]:

BRIEF DESCRIPTION OF THE DRAWING

[0008.1] The radar device system according to the present invention is discussed in further detail below with reference to the drawing, in which:

[0008.2] Fig. 1 shows a qualitative representation of a typical transmission/reception spectrum.

Please add the following new heading before paragraph [0009]:
DETAILED DESCRIPTION

On page 7, please amend the heading as follows:

~~Patent Claims:~~ WHAT IS CLAIMED IS.